

2-2.7 Temporary Water Pollution Control

Introduction

To meet regulatory requirements and protect the site resources, every project must include an effective combination of Water Pollution Control (WPC) Best Management Practices (BMPs). Also known as construction site BMPs, these temporary measures are applied during construction activities to reduce the pollutants in storm water discharges throughout the duration of project construction. Construction site BMPs provide both temporary erosion and sediment control, as well as, control for potential pollutants other than sediment.

All projects shall follow the procedures set forth in the Storm Water Quality Handbook Project Planning and Design Guide (PPDG) to develop a strategy for addressing stormwater during construction. The PPDG includes the Construction Site Consideration Form and the Construction Site Checklists located in Appendix E. This guide is available for download on the Caltrans internet at:
<http://www.dot.ca.gov/hq/oppd/stormwtr/>

General

Project engineers are required to select and estimate construction site BMPs when developing the project PS&E. At a minimum, designers shall provide a quantity table of construction site BMPs and include separate bid items for these BMPs, as part of the PS&E package. The determination of the degree and level of detail of construction site BMPs to be included in the contract documents should be discussed between district construction, design, and associated

units such as NPDES and environmental engineering, at the Project Initiation Document, Project Approval and Environmental Document, and PS&E phases of the project.

If a determination is made that a greater emphasis on construction site BMPs is justified, appropriate construction site BMPs shall be delineated on the plan sheets in addition to being shown on the summary of quantities sheet. Additional measures, as described in the PPDG, may be required for exceptional projects.

The benefit of including contract items for BMPs, quantity tables, or plans is more consistent bids for stormwater items, easier contract administration, and more timely installation and maintenance of construction site BMPs.

The inclusion of contract items for BMPs, quantity tables, or plans showing location and deployment of BMPs does not relieve the Contractor of preparing a Storm Water Pollution Prevention Plan (SWPPP) or Water Pollution Control Program (WPCP).

As described in the PPDG, pertinent information used to develop the construction site BMP strategy and quantities (plans, calculations, etc.) shall be provided in the Resident Engineer file and made available in the Information Handout (if prepared for the project).

Temporary Water Pollution Control Quantities

The quantity table of construction site BMPs shall be included as part of the project plans and shown on the project's summary of quantities sheet.

The temporary water pollution control quantity table shall show the particular type of BMP, unit of measure, the quantity used, and the approximate locations or stationing of construction site BMPs. Stationing should be referenced to the nearest alignment line. If the project uses only post miles to identify limits of work and construction, then the locations of BMPs should also be identified by post mile.

Temporary Water Pollution Control Details

The temporary water pollution control details to be included in the plans are unique to a specific project and those for which there are no standard plans. They usually depict modifications to BMPs or a combination of several BMPs for special situations. The temporary water pollution control standard plans which have details applicable to the project shall be identified in the project's special provisions standard plan list.

If construction site BMPs are only shown on the project layout sheets and details of BMPs are to be included in the project, then these details should be included in the construction details for the project. If temporary water pollution control plan sheets are included in the project plan set and details are to be included, temporary water pollution control details may be shown with the temporary water pollution control plan sheets.

Temporary Water Pollution Control Plans

If a determination is made to include temporary water pollution control plan sheets as part of the project plan set, then they shall be developed to show the proposed location of the construction site BMPs.

The project's base mapping is typically used as the background for these plans. The background information (topography) should be shown as existing (dropped out) and temporary water pollution control work shown as solid lines.

Temporary water pollution control plan sheets should be titled correctly so as not to be confused with erosion control plan sheets. Temporary water pollution control plan sheets show layouts of construction site BMPs and may include temporary erosion control measures. Erosion control plan sheets show layouts of erosion control measures intended to be left in place beyond completion of the contract (see Section 2-2.8).

On projects with multi-year duration and complex staging, especially where roadway alignments change, temporary water pollution control plans may need to be prepared for the major construction stages and phases. The BMPs necessary for the particular stage shall be indicated and may be shown on the project's stage construction sheets.

A list of abbreviations and symbols with their meanings should be included on the first sheet of the temporary water pollution control plans. Do not include standard plan abbreviations as part of the list of abbreviations.

Environmentally sensitive areas (ESAs) shall be shown on all project plan (layout) sheets, including the temporary water pollution control plans. The symbols used to indicate ESAs shall be consistent throughout the plan sheets.

Each sheet of the temporary water pollution control plans shall have the following note

included on it: "APPROVED FOR
TEMPORARY WATER POLLUTION
CONTROL WORK ONLY."

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